

=> d his

(FILE 'HOME' ENTERED AT 15:22:37 ON 09 OCT 2003)

FILE 'REGISTRY' ENTERED AT 15:22:53 ON 09 OCT 2003

L1 SCREEN 964 AND 1015  
L2 SCREEN 1821 OR 1822 OR 1823 OR 1824  
L3 STRUCTURE UPLOADED  
L4 QUE L3 AND L1 AND L2  
L5 354 S L4 FULL

FILE 'CAPLUS' ENTERED AT 15:36:45 ON 09 OCT 2003

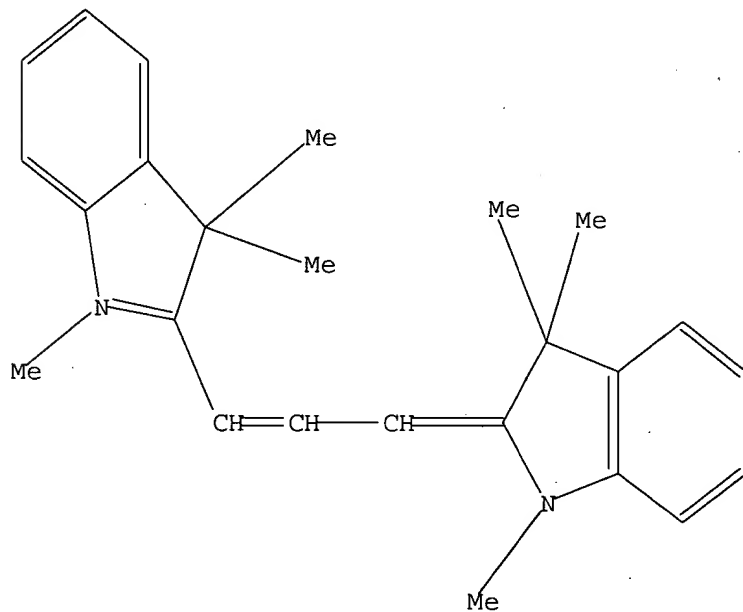
L6 13 S L5 AND (COPPER OR CU)

FILE 'REGISTRY' ENTERED AT 15:37:20 ON 09 OCT 2003

=> d 14

L4 HAS NO ANSWERS

L1 SCR 964 AND 1015  
L2 SCR 1821 OR 1822 OR 1823 OR 1824  
L3 STR



Structure attributes must be viewed using STN Express query preparation.  
L4 QUE L3 AND L1 AND L2

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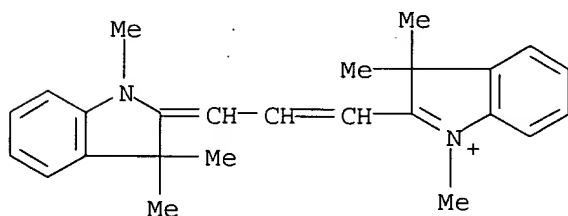
=> s 16021-25-3/rn  
L1 1 16021-25-3/RN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 16021-25-3 REGISTRY  
CN 3H-Indolium, 2-[3-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1-propenyl]-1,3,3-trimethyl-, perchlorate (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 1,3,3-Trimethyl-2-[3-(1,3,3-trimethyl-2-indolinylidene)propenyl]-3H-indolium perchlorate (6CI)  
CN 3H-Indolium, 1,3,3-trimethyl-2-[3-(1,3,3-trimethyl-2-indolinylidene)propenyl]-, perchlorate (8CI)  
MF C25 H29 N2 . Cl O4  
LC STN Files: CA, CAOLD, CAPLUS, CHEMCATS, IFICDB, IFIPAT, IFIUDB, USPATFULL

CM 1

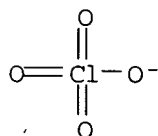
CRN 20766-56-7  
CMF C25 H29 N2



Cation

CM 2

CRN 14797-73-0  
CMF Cl O4



Anion

33 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
33 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=>

=> d 16 all 13

L6 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1972:482824 CAPLUS  
DN 77:82824  
TI Effect of the structure of carbocyanine dyes on the leveling power during the electrodeposition of **copper**  
AU Gerenrot, Yu. E.; Vaisburd, L. A.; Sych, E. D.  
CS Ukr. Nauchno-Issled. Inst. Mestn. Prom., USSR  
SO Zashchita Metallov (1972), 8(3), 338-42  
CODEN: ZAMEA9; ISSN: 0044-1856  
DT Journal  
LA Russian  
CC 77-6 (Electrochemistry)  
AB The relation was studied between the structure of polymethine dyes (carbocyanines, styryls), and their leveling power during **Cu** electrodeposition from acid solns. The leveling additives used were: carbocyanine dyes with sym. and asym. structures contg quinoline, benzothiazole, indolenine, and 5-phenyloxazole rings with a different alky. (in total 17 compds.). **Cu** was electrodeposited on sectors of long-playing record matrixes from an electrolyte contg.  $\text{CuSO}_4$  200,  $\text{H}_2\text{SO}_4$  50 g/l., and 5 .times.  $10^{-6}$ ,  $10^{-5}$ , 5 .times.  $10^{-5}$ , or  $10^{-4}\text{M}$  of a leveling additive at cds. 0.5, 1, and 2 A/dm<sup>2</sup> for 40, 20, and 10.5 min., resp., and the leveling power was detd. The greatest leveling power was obsd. with carbocyanines with the highest basicity. The relation of the leveling power to the concn. of the additives had, in most cases, an extremal character. A probable scheme for the interaction of **Cu** and the additive, and a mechanism of the leveling action of the additives are given.  
ST polymethine dye **copper** leveling; carbocyanine dye **copper** leveling; alky carbocyanine **copper** leveling; **copper** electrodeposition  
IT Dyes  
(carbocyanine, in **copper** electroplating, mol. structure effect on leveling power in)  
IT Molecular structure-property relationship  
(on leveling power of carbocyanine dyes, in electroplating of **copper**)  
IT 7440-50-8, uses and miscellaneous  
RL: PEP (Physical, engineering or chemical process); PROC (Process)  
(electroplating of, from baths contg. carbocyanine dyes, mol. structure  
effect on leveling power in)  
IT 605-91-4 905-97-5 2052-53-1 2784-90-9 3065-79-0 3119-93-5  
**16021-25-3** 37814-54-3 37814-55-4 37814-57-6 37814-58-7  
37814-59-8 37814-60-1 37814-61-2 37814-63-4 38429-32-2  
38429-33-3  
RL: PRP (Properties)  
(in electroplating, mol. structure effect on leveling power in **copper**)

=>

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*PLUR=YES; OP=AND*

L5	L1 and ((cyan\$10 or indol\$10 or inden\$10 or indazol\$10) near10 dye\$3)	77	L5
L4	L3 and dye\$3	70	L4
L3	L2 and brighten\$8	321	L3
L2	L1 and (cyan\$10 or indol\$10 or inden\$10 or indazol\$10)	2358	L2
L1	(electroplat\$10 or electrodeposit\$10 or electrochem\$10 or electroly\$10) near3 (copper or Cu)	21043	L1

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Author/Editor

Genenot et al.

Journal/Book Title

Zashchita metallov

Article Title

Effect of the structure of carbocyanine dyes on the leveling...

Volume (Issue)

8(3)

Pages

338-42

Year of Publication

1972

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L6 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN  
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(in electroplating, mol structure effect on leveling power in copper)

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